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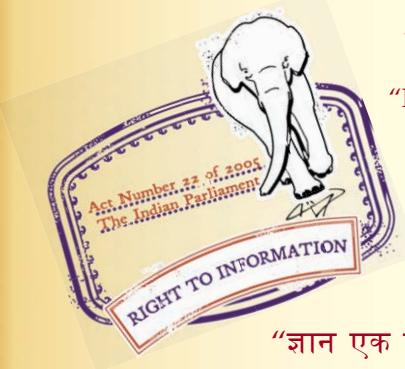
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IS 7492 (1989): Sewing machines, household - Sewing requirements [MED 29: Sewing Machines]

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“Knowledge is such a treasure which cannot be stolen”





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*Indian Standard*

**SEWING MACHINES, HOUSEHOLD —  
SEWING REQUIREMENTS**

*( First Revision )*

UDC 687·053 : 620·16

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**BUREAU OF INDIAN STANDARDS**  
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## FOREWORD

This Indian Standard ( First Revision ) was adopted by the Bureau of Indian Standards on 7 June 1989, after the draft finalized by the Sewing Machines Sectional Committee had been approved by the Light Mechanical Engineering Division Council.

This standard was originally issued in 1974 with a view to establish the quality and durability of sewing machine for household purpose.

This revision incorporate the following modification which are felt necessary as a result of experience gained in manufacture and test:

- a) Incorporation of latest designation of thread, and
- b) Indication of sewing method against sewing speed.

The other standards in this series are:

IS 7491 : 1989 Sewing machines, household — Accuracy requirements

IS 7493 : 1989 Sewing machines, household — Durability requirements

*Indian Standard*

**SEWING MACHINES, HOUSEHOLD —  
SEWING REQUIREMENTS**

*( First Revision )*

**1 SCOPE**

**1.1** This standard covers the sewing test conditions and sewing requirements for sewing machines for household purposes.

**2 REFERENCES**

<i>IS No.</i>	<i>Title</i>
IS 1101 : 1981	Handloom cotton cellular shirting ( <i>first revision</i> )

<i>IS No.</i>	<i>Title</i>
IS 1584 : 1960	Handloom silk shirting, loomstate
IS 1720 : 1978	Cotton sewing threads ( <i>second revision</i> )
IS 2181 : 1973	Household sewing machine needles for household purposes ( <i>first revision</i> )

**3 TEST CONDITIONS**

**3.1** The test shall be carried out in forward stitching under the conditions given in Table 1.

**Table 1 Test Conditions**

Sl No.	Item	Needle Size <sup>1</sup>	Kind of Thread <sup>2</sup>	Sewing Material <sup>3</sup>	Number of Layers	Stitch Length, Approx mm	Sewing Speed, Approx, Min <sup>4</sup> rev/min	Sewing Length, Approx mm
1)	Common sewing test	14	40s/3	Shirting cloth	2	1.5 3	300 600	500
2)	Sewing test on steps	14 or 16	40s/3	Shirting cloth	4 to 12 and 12 to 4	1.5 3	300 600	250
3)	Sewing test on thicker material	16 or 18	40s/3	Drill	6	3	600	500
4)	Sewing test on light material	11	50s/3	Polyester silk cloth or muslin	2	1.5	600	500
5)	Sewing test for straightness of stitch	14	—	Blue print paper	2	3	600	In forward sewing with hands free, the maximum height of an arc shall be below 5 mm for the freed chord of 200 mm length

<sup>1</sup>As specified in IS 2181 : 1973.

<sup>2</sup>As specified in IS 1720 : 1978.

<sup>3</sup>As specified in IS 1101 : 1981.

<sup>4</sup>As specified in IS 1584 : 1960.

\*300 rev/min : Sewing by hand attachment.

600 rev/min : Sewing by treadle.

**3.2** The reverse sewing test shall be carried out for 50 mm length at the maximum reverse position and common sewing test only.

**3.3** In case of sewing test on steps, the length of step ( 12 layers ) shall be about 20 mm and the number of steps shall be added at 5 places. Besides, the length on 4 layers shall be 30 mm or more.

#### **4 SEWING REQUIREMENTS**

**4.1** The tests shall meet the following requirements:

a) There shall be no false stitch.

- b) There shall be no breakage of threads.
- c) Thread tensions, both upper and lower, shall be satisfactory.
- d) Squeezing of cloth shall not be visible in forward stitching. However, for reverse stitching, a little squeezing is permissible.
- e) There shall be no damage to the cloth and the thread.
- f) Feed of cloth shall be satisfactory and there shall be no damage to the cloth and the thread.

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